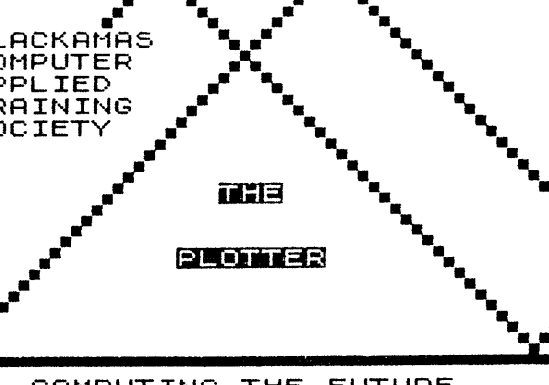


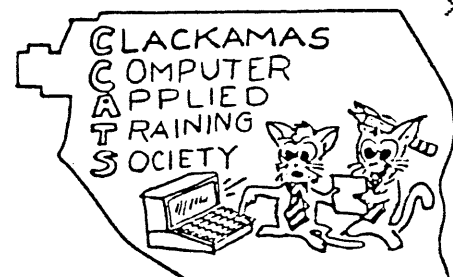
# THE PLOTTER



CLACKAMAS  
COMPUTER  
APPLIED  
TRAINING  
SOCIETY

THE  
PLOTTER

COMPUTING THE FUTURE--  
IN CLACKAMAS COUNTY



Continued from page 1

Rod assured members that our current financial picture was adequate to carry us through the year. Sales for our new publication are looking good, but we should be sure that we have sales for any issues printed.

The need for some kind of notice be posted on the school bulletin boards was discussed. Dick will initiate contact with the proper authorities for notices of meeting dates and invitations to students who might be interested in our type of organization.

Rod mentioned the existance of a program that permits 2068 text to be used on MSDOS type computers. He will have details as more is learned of this program.

Under old business, Jack explained that between himself, Bill Dunlop, and Alice Dunlop, probably about 50% of the required material has been processed for Rod to use. Dick is slowly progressing on programs that require special printing because of graphic symbols but he expects to soon have this finished. June is the target month for all of this to be copied, ready for Rod.

Projected sale price for the publication has been suggested, probably \$14.95. This seems to be in line with similar publications that have been sold by other organizations.

The meeting was adjourned at 8:50 PM

Dick F. Wagner  
Secretary

Note: After the adjournment our guest Gary Starsuick presented a program designed to demonstrate the fine graphic capabilities of the Amiga computer. As an example of his showmanship capability, he had the computer at the front of the room, mouse controlled from his table, with the monitor elevated so it was easily seen from any occupied chair. Thank you, Gary.

## **BITS & BYTES**

by: Rod Gowen

In this column I try to bring you the latest and complete information and news available to me regarding the world of TS computing. One way that I can accomplish this is if I have the support of you, the reader, in collecting news that may be of interest to other readers. If you have any news, rumors or other tidbits of information that fits this description, why not send it along? We will be watching!

### **VULCAN DROPS ORPANS!!!-----**

Yes! Bad news for us all! It seems, according to the author of the TS SURVIVORS column in VULCAN COMPUTER MONTHLY magazine, the editors have decided that the bucks are in the Mac and IBM market so they are cancelling the CLASSIC COMPUTER section effective with the July issue. It really seems that this has happened befor. Computer Shopper did the very same thing only a bit over a year ago. Can we stop it? Not likely. We can, however, according to Bill Ferrebee, possibly be instrumental in getting VULCAN to start a new, separate magazine devoted exclusively to the "orphan" computers of America. WE NEED YOUR HELP! YOU NEED OUR HELP! ALL TS USERS AS WELL AS AMIGA, COMMODORE, TI-99, SANYO AND TRS80 USERS MUST UNITE! Write or call AT ONCE!

COMPUTER MONTHLY  
P. O. BOX 55886  
BIRMINGHAM, AL 35255-9951  
205/388-9708

If you don't do it now, you have no one to blame except yourself when your sources are all dead and gone!

### **2068 ON YOUR IBM!-YES!**

For the last few days I have been writing, SAVEing, LOADING and RUNing 2068/SPECTRUM 48 programs on my 286 and XT! This is GREAT! The BEST of both worlds!

The SPECTUM EMULATOR package was sent to me by Jack Dohany who is acting as continental coordinator for the further development of this software package. The actual program was developed by a couple of fellows

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in Poland. Jack did some testing and has sent copies to myself and others for further testing and work. What Jack is looking for is some ONE person who is capable of programming on the IBM compatibles and would like to help develop and debug this package further. If you are interested, please get in touch with Jack at:

Jack Dohany  
390 Rutherford Avenue  
Redwood City, CA 94061  
415/367-7781

Now, back to the emulator: This is great! I am looking at a 32 column screen that has the Sinclair copyright at the bottom. As soon as I touch a key I get the familiar "K" cursor and can begin to enter program lines or commands the same as the ZX-81, TS1000, 2068 or Spectrum. ALL of the TOKEN keys work and you can easily slip back into the routine that you were used to on the Sinclair machine. The package even includes an "invisible" tape recorder in the form of a file "TAPE\_ZX.SPC" which contains quite a few games and other programs that can be LOADED just as you would from a tape recorder. If you want to know what files are on the tape, you simply use LOAD "XXXX" and you will see the familiar "Program: name" or "bytes: name" scrolling down the screen. I will be writing a longer review of this package after I have had more time with it. Watch for it! In the meantime, if you want a copy of it, just send \$3.50 plus \$2.50 postage/handling and ask for the IBM SPECTRUM EMULATOR PACKAGE. Please specify 5.25"/360 (2 disks), 5.25"/1.2M, 3.5"/720K or 3.5"/1.44M format. You won't be sorry if you love your Sinclair!

### BEST OF THE PLOTTER---

continues on schedule (we think). We are now shooting for a fall publication date and it appears that we may make it! There seems to be a growing interest in the book. RMG has had over 25 inquiries and letters/calls stating intent to purchases as soon as it is available. The price has now been set at \$14.95 plus shipping for the book and we feel that the program disk

will probably be about \$8-10. We are sure that anyone who purchases this volume will NOT be disappointed as we are trying to do as professional a job as is possible for a group like ours. If any of you are interested in this book/disk, PLEASE let us know so that we can gauge some numbers for our first press run.

That's if for now!

See you next time. . .

# VULCAN KILLS CLASSICS

by: Rod Gowen

I am sorry and sad to report that the establishment has done it to the "orphans" again! It seems they are out to put us down and out once and for all! Why? What did we do to deserve this kind of treatment?

Yes folks, Vulcan Computer Monthly magazine will drop its CLASSIC COMPUTER section with the July, 1992 issue. This news comes to us from Bill Ferrebee, the author of the TS SURVIVORS column that is currently appearing in that magazine. He says that they are apparently after the big money that the Mac and IBM world will bring in. Now, I ask you, how much money are they going to lose when the current "orphan" subscribers start cancelling their subs? I have a feeling that eventually they will be back to the level that they are now, but there are going to be a LOT of immediate cancellations from the AMIGA, TI-99, COMMODORE, TRS-80, SANYO and TS users of the world. At least I hope so. I want them to feel it in the pocketbook! This seems to be the only language that they understand. >>>

I am happy to report, however, that all may not be lost! It seems that the editors are open to the possibility of creating a new magazine devoted exclusively to the above named "orphaned" computers. What we need, then, is HELP! From anyone who would be interested in the creation of the new magazine. We need you to call or write to the address/phone number AT ONCE! Let's show the world that we are not ready to lie down and die just yet! The TS COMMUNITY LIVES!

COMPUTER MONTHLY  
P. O. BOX 55886  
BIRMINGHAM, AL 35255-9951  
205/988-9708

REMEMBER! IF WE LOSE THIS ONE, IT IS ALL DOWNHILL FROM HERE!

ONLY YOU CAN HELP!

DO  
IT  
NOW!

---ZX-91---

Have our readers outside of the CCATS group been in contact with Andre Baune in Chateaugay, Quebec, Canada? I know that some of the user groups have received copies of his one-man newsletter dedicated to the ZX 81, TS1000, and TS1500 computers. I received a nice letter and his NO. 3 ZX-91 newsletter in return for a copy of our newsletter and some suggested program material. How about sending him copies of some of your early programming with these computers? His address is:

Andre Baune  
304 Scott  
Chateaugay, Quebec  
Canada JEJ 4H5

For readers wondering where Chateaugay is, my map places it about 20 miles north of the New York state border and south of the St. Lawrence River, about south of Montreal. This is beautiful country. I have traveled east of this location as far east as the extremity of the Gaspé Peninsula and as far south as Nova Scotia. My wife and I used bread and breakfast accomodation with wonderful results.

Andre makes a strong point for the TS 1000 computer as a learning tool. If we think back on our computer indoctrination we learned BASIC programming with this machine, or at least purchased low cost programs on tape. Also there was a nice number of magazines we could draw on for programs. I doubt that students learn very much programming with their school equipped Apple computers.

## BASIC STATISTICS

This program was written by I. Auersbacher in 1985 and published in the CTM magazine. It has some interesting programming for the 2068 user.

People involved or interested in statistics can use a lot of computer time as this is a complex subject. Such a program as this one may be of interest to some of our readers. The purpose of this short program is to print out from data (any amount) various statitital values for specific statistical calculations.

The screen displays the complete list of data, such as perhaps the points of of a curve, that must be entered (any amount). From this the screen displays the following:

- Minimum value
- Maximum value
- Sum of the values
- Average value
- Sum of the squares of the values
- Variance
- Standard deviation
- Variation coefficient

>> >>

Continued from page 4

I don't pretend to know the subject of statistics but find the program interesting to follow through and check equations. I did find that to terminate the data input just key in "s" or "S" or "q" for the last x. From then on your answers are right there on the screen.

There is one odd variable value, s=-987.1234. It appears that the only place "s" is used is in this termination step. The calculations do not include this number, so what is it for? I did find that a value for s such as -1 will work, but a + will not work.

```
2 REM basic STATISTICS 2068
4 REM by I. Auersbacher 1985
10 ON ERR GO TO 900: LET ss=0:
LET sum=0: LET s=-987.1234: LET
q=s: LET n=0: BEEP .05,23
12 BORDER 5: POKE 23609,10
14 PRINT PAPER 6;" Basic Stati
stics Package 2068 ": PRINT
16 PRINT "Enter Data Points:"
18 PRINT : PRINT "x=";
20 INPUT x: IF x=s THEN BEEP 0
.5,-15: BEEP 0.6,-20: GO TO 20
22 PRINT x,: LET max=x: LET mi
n=x: GO SUB 60
25 PRINT "x=";; INPUT x: IF x=
s THEN PRINT "S": GO TO 100
30 PRINT x,: GO SUB 50
35 GO TO 25
50 IF x> max THEN LET max=x
55 IF x< min THEN LET min=x
60 LET sum=sum+x: LET ss=ss+x*
x: LET n=n+1: RETURN
100 LET ave=sum/n
110 LET var=(ss-(sum*sum)/n)/n
120 LET std=SQR (var*n/(n-1))
130 LET vc=std/ave: BEEP .1,22
200 CLS : PRINT PAPER 6;AT 1,2;
" ** Solution **": PRINT
210 PRINT "Number/points: ";n
220 PRINT "Minimum value: ";min
230 PRINT "Maximum value: ";max
240 PRINT "Sum of values: ";sum
250 PRINT "Average value: ";ave
260 PRINT "Sum / squares: ";ss
270 PRINT "Variance : ";var
280 PRINT "Std Deviation: ";std
290 PRINT "V Coefficient: ";vc
300 PRINT : PRINT : PRINT TAB 1
; PAPER 6;" ** End Solution **"
310 ON ERR RESET : STOP : STOP
900 ON ERR RESET
910 BEEP 0.5,-15: BEEP 0.6,-20
920 ON ERR GO TO 900
930 ON ERR CONTINUE
```

## 2068 WORD PROCESSING

(Continued from last month)

If the user wishes to use a different disk drive DRIVE will bring up the choices of 0-3 drive number. SAVE requires a file name, the length depending on the system requirement. The extension is automatically added. For color users PAPER command will toggle through the various possible paper/ink combinations. B&W monitors display the gray scales of each color.

The system directory is displayed with the CATALOG command, plus the choice is available to make a data file out of the directory. Additional copies of MSCRIPT can be made on the drive of choice, or cassette, by using the BACKUP command. Something like merge takes place with ADD TEXT command, which adds the selected file to the file in place.

I have used the Oliger ERASE command with disaster several times so I prefer to do this from the catalog so I can be sure and have a duplicate disk should something happen. This command is provided for from the main menu. Sometimes it is difficult to get out of a program but this is nicely taken care of with the QUIT command. It is not necessary to go to BASIC to make Peeks and Pokes, just use the VIEW MEMORY.

The main menu is not yet completely covered--X BLOCK is interesting as it permits inserting block markers to print any part of the text, to move sections of text, or to delete sections of text. A toggle changes NO and YES. Y EJECT provides control over the printer form feed, while Z is a toggle for line feed for printing.

In order to get more space for some different commands Jack has taken over the keyboard top

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Continued from page 5

number row with new assignments for each key. This can also be toggled on and off. Various "hot" keys give on-off control for key klick, return from edit to the main menu, print menu, and function menu, as well as SYMBOL SHIFT-BREAK often used with the commands. Jack has included his special alphabet design of more readable characters accessed by a "hot" key. There is no menu for this top row of commands so at times one must look closely at the cursor as it shows an "X" if a "flip" has been made.

There are the cursor moving commands, expansion of the normal TAB, insert mode, and various delete commands. The printing commands or line formats have the disadvantage that the action does not appear on the screen so the results are not apparent until a print draft is made. These include left margin, line length (both are screen actions also), justify, headers and footers, page numbering, page length, hanging indents, to name some. The line length on the screen may or may not be as printed, the user has that choice.

Block marked sections have the advantage that printing stops at the end of a marked block if the command for this is given. Thus printing of specific sections can be controlled as to position on a page.

The physical operation of MSCRIPT by imbedding printer codes in the text is very ingenious. Jack's contribution to that feature makes it possible to pre-determine up to 52 printer codes (26 lower case and 26 upper case letters). This is more than I have available in my printer! However, it does provide for printer improvement in future models. Printer codes are simply inserted in the text with the copyright code plus a letter. These codes can be ganged up

different than the function codes which usually must be at the start of a line or in a separate line and are preceded with a ">".

My MSCRIPT program has 42 printer codes set up permanently, many are those that might be used sometime. This leaves 10 defineable codes that can be added. Often a code is used at the beginning of a word, such as BOLD or ITALIC, for accent. Just use the copyright symbol (Function G) and D or I, and cancel with Function G with d or i.

Besides the set of printer codes defined by the user (Jack might do this for other than Epson type printers), it is possible to define up to 9 character codes such as have codes above 127. I do this simply as >#9=232/1 for the border on our newsletter. This is input as copyright 9 for the number of times it is to be duplicated. Double wide characters enhance its appearance and take fewer characters. Our newsletter border includes a page number, all a simple process. If a different character is desired for this use, just change the character code for 9 and try it out.

Handy search and find commands permit moving text, substituting for an often used word or phrase, locating words for spelling correction or changing, etc. If it is discovered that an incorrect spelling has been used, just correct all such words with one key press.

The text or lines can be opened up for the insertion of additions and then closed back again, very convenient if an unknown amount of text will be added in one or more lines.

While the display can be altered for any width up to about 125 and down to about 2, such things as right justify are not displayed. nor are other printer functions

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Continued from page 6

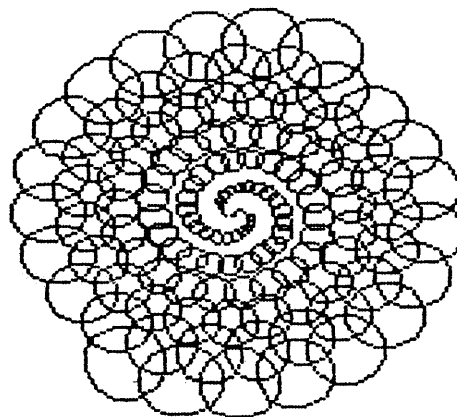
such as fonts. Having the screen width equal to the printed width is convenient for hyphenating words, determining text length, block selections for printing, etc.

The lack of "what you see is what you get" requires some calculation on the users part, such as proper line length based on printer font. I have found that this has not been a handicap in organizing the text.

While this article does not cover all of the many MSCRIPT features, it does illustrate how this program parallels may "big time" word processors available to the MSDOS user. In fact, I have a fondness for its simplicity that often makes it a preference over using a more complicated program with MSDOS that has many features not required for my task. It would have very adequate for doing this article. Block printing permits printing a desired column length as well as a full column. Using this article as a last item in the newsletter makes it possible to fit its length to the need, with the remainder available for another issue.

Dick F. Wagner

```
10 REM circles
20 REM vary x/30 to change cir
cle sizes
100 FOR x=1 TO 400 STEP 3
130 CIRCLE 100+COS (x)*(x/6),90
+SIN (x)*(x/6),x/30
170 NEXT x
```



Seen on a tea bag: If you ain't  
the lead dog, the scenery never  
changes.--E. Wilson

[illegible]

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